

In the Claims

The status of claims in the case is as follows:

1 1-3. [Canceled]

1 4. **[Currently amended]** A method for monitoring a computer
2 software system by reading log records written by said
3 software system to determine performance of said software
4 system relative to response time to end users, comprising:

5 adjustably tuning performance evaluation bias by a
6 computer software monitoring system between processor
7 and memory consumption;

8 responsive to said bias, monitoring performance of said
9 computer software system with respect to transaction
10 time parameters including said response time to end
11 users;

12 receiving from a user a first tuning parameter for
13 allocating memory for said monitoring performance and a
14 second tuning parameter for specifying time out for in-
15 flight units of work;

16 ~~The method of claim 1, further comprising:~~

17 initializing said memory with an in-flight transactions
18 vector table for anchoring synonym chains of in-flight
19 transaction cells;

SVL920030040US1

4

S/N 10/724,327

20 accumulating time statistics for in-flight transactions
21 in said in-flight transaction cells;

22 initializing said memory with a completed transactions
23 table for storing time statistics for completed
24 transactions;

25 receiving from said computer software system a
26 transaction log record for a unit of work;

27 hashing said first transaction log record to select
28 from said vector table an anchor to an in-flight
29 transaction cells chain corresponding to said unit of
30 work;

31 searching said in-flight transaction cells chain for
32 said unit of work;

33 responsive to finding said unit of work in said in-
34 flight transaction cells chain, capturing to said in-
35 flight transaction cell timing statistics from said
36 transaction log record;

37 responsive to not finding said unit of work in said in-
38 flight transaction cells chain, chaining a new in-
39 flight transaction cell to said chain and capturing to
40 said new in-flight transaction cell timing statistics
41 from said transaction log record; and

42 determining if said transaction log record completes a
43 transaction and, if so, updating said completed
44 transactions table with timing statistics for said

SVL920030040US1

5

S/N 10/724,327

45 transaction and removing said in-flight transaction
46 cell from said in-flight transaction cells chain.

1 5. [Currently amended] A method for monitoring a computer
2 software system by reading log records written by said
3 software system to determine performance of said software
4 system relative to response time to end users, comprising:

5 adjustably tuning performance evaluation bias by a
6 computer software monitoring system between processor
7 and memory consumption;

8 responsive to said bias, monitoring performance of said
9 computer software system with respect to transaction
10 time parameters including said response time to end
11 users;

12 receiving from a user a first tuning parameter for
13 allocating memory for said monitoring performance and a
14 second tuning parameter for specifying time out for in-
15 flight units of work;

16 ~~The method of claim 1, further comprising~~

17 initializing said memory with an in-flight transactions
18 vector table for anchoring synonym chains of in-flight
19 transaction cells;

20 accumulating time statistics for in-flight transactions
21 in said in-flight transaction cells;

22 initializing said memory with a completed transactions

SVL920030040US1

6

S/N 10/724,327

23 table for storing time statistics for completed
24 transactions;

25 receiving from said computer software system a
26 transaction log record for a unit of work;

27 hashing said first transaction log record to select
28 from said vector table an anchor to an in-flight
29 transaction cells chain corresponding to said unit of
30 work;

31 searching said in-flight transaction cells chain for
32 said unit of work;

33 responsive to finding said unit of work in said in-
34 flight transaction cells chain, capturing to said in-
35 flight transaction cell timing statistics from said
36 transaction log record;

37 responsive to not finding said unit of work in said in-
38 flight transaction cells chain, chaining a new in-
39 flight transaction cell to said chain and capturing to
40 said new in-flight transaction cell timing statistics
41 from said transaction log record;

42 determining if said transaction log record completes a
43 transaction and, if so, updating said completed
44 transactions table with timing statistics for said
45 transaction and removing said in-flight transaction
46 cell from said in-flight transaction cells chain; and

47 determining responsive to said second tuning parameter

SVL920030040US1

7

S/N 10/724,327

48 if a selected unit of work being accumulated in a
49 selected in-flight transaction cell has timed out, and
50 if so removing from said selected in-flight transaction
51 cell from said in-flight transaction cell chain and
52 selectively updating said completed transactions table
53 with timing statistics for said selected unit of work.

1 6. [Canceled]

2 7. [Currently amended] A system for monitoring a computer
3 software system by reading log records written by said
4 software system to determine performance of said software
5 system relative to response time to end users, comprising:

6 a first user actuated tuning knob for allocating space
7 in memory for performance monitoring;

8 a second user actuated tuning knob for a specifying
9 time out value for in-flight units of work;

10 a transaction monitor responsive to said first and
11 second user actuated tuning knobs for accumulating, in
12 synonym chain cells in said space, timing statistics
13 for a plurality of said in-flight units of work;

14 ~~The system of claim 6, further comprising:~~

15 said memory including an in-flight transactions vector
16 table for anchoring synonym chains of in-flight
17 transaction cells;

18 said in-flight transaction cells for accumulating time

SVL920030040US1

8

S/N 10/724,327

19 statistics for in-flight transactions;

20 said memory including a completed transactions table
21 for storing time statistics for completed transactions;

22 a monitor for receiving from said computer software
23 system a transaction log record for a unit of work;

24 said monitor hashing said first transaction log record
25 to select from said vector table an anchor to an in-
26 flight transaction cells chain corresponding to said
27 unit of work;

28 said monitor for searching said in-flight transaction
29 cells chain for said unit of work;

30 said monitor further responsive to finding said unit of
31 work in said in-flight transaction cells chain for
32 capturing to said in-flight transaction cell timing
33 statistics from said transaction log record;

34 said monitor further responsive to not finding said
35 unit of work in said in-flight transaction cells chain
36 for chaining a new in-flight transaction cell to said
37 chain and capturing to said new in-flight transaction
38 cell timing statistics from said transaction log
39 record;

40 said monitor further for determining if said
41 transaction log record completes a transaction and, if
42 so, updating said completed transactions table with
43 timing statistics for said transaction and removing

SVL920030040US1

9

S/N 10/724,327

44 said in-flight transaction cell from said in-flight
45 transaction cells chain; and

46 said monitor further for determining responsive to said
47 second tuning knob if a selected unit of work being
48 accumulated in a selected in-flight transaction cell
49 has timed out, and if so removing from said selected
50 in-flight transaction cell from said in-flight
51 transaction cell chain and selectively updating said
52 completed transactions table with timing statistics for
53 said selected unit of work.

1 8-10. [Canceled]

1 11. [Currently amended] A program storage device readable
2 by a machine, tangibly embodying a program of instructions
3 executable by a machine to perform method steps for
4 monitoring a computer software system by reading log records
5 written by said software system to determine performance of
6 said software system relative to response time to end users,
7 said method comprising:

8 adjustably tuning performance evaluation bias between
9 processor and memory consumption;

10 responsive to said bias, monitoring performance of said
11 computer software system with respect to transaction
12 time parameters;

13 receiving from a user a first tuning parameter for
14 allocating memory for said monitoring performance and a
15 second tuning parameter for specifying time out for in-

SVL920030040US1

10

S/N 10/724,327

16 flight units of work;

17 ~~The program storage device of claim 8, said method~~
18 ~~further comprising:~~

19 initializing said memory with an in-flight transactions
20 vector table for anchoring synonym chains of in-flight
21 transaction cells;

22 accumulating time statistics for in-flight transactions
23 in said in-flight transaction cells;

24 initializing said memory with a completed transactions
25 table for storing time statistics for completed
26 transactions;

27 receiving from said computer software system a
28 transaction log record for a unit of work;

29 hashing said first transaction log record to select
30 from said vector table an anchor to an in-flight
31 transaction cells chain corresponding to said unit of
32 work;

33 searching said in-flight transaction cells chain for
34 said unit of work;

35 responsive to finding said unit of work in said in-
36 flight transaction cells chain, capturing to said in-
37 flight transaction cell timing statistics from said
38 transaction log record;

SVL920030040US1

11

S/N 10/724,327

39 responsive to not finding said unit of work in said in-
40 flight transaction cells chain, chaining a new in-
41 flight transaction cell to said chain and capturing to
42 said new in-flight transaction cell timing statistics
43 from said transaction log record; and

44 determining if said transaction log record completes a
45 transaction and, if so, updating said completed
46 transactions table with timing statistics for said
47 transaction and removing said in-flight transaction
48 cell from said in-flight transaction cells chain.

1 12. [Currently amended] A program storage device readable
2 by a machine, tangibly embodying a program of instructions
3 executable by a machine to perform method steps for
4 monitoring a computer software system by reading log records
5 written by said software system to determine performance of
6 said software system relative to response time to end users,
7 said method comprising:

8 adjustably tuning performance evaluation bias between
9 processor and memory consumption;

10 responsive to said bias, monitoring performance of said
11 computer software system with respect to transaction
12 time parameters;

13 receiving from a user a first tuning parameter for
14 allocating memory for said monitoring performance and a
15 second tuning parameter for specifying time out for in-
16 flight units of work;

SVL920030040US1

12

S/N 10/724,327

17 ~~The program storage device of claim 8, said method~~
18 ~~further comprising~~

19 initializing said memory with an in-flight transactions
20 vector table for anchoring synonym chains of in-flight
21 transaction cells;

22 accumulating time statistics for in-flight transactions
23 in said in-flight transaction cells;

24 initializing said memory with a completed transactions
25 table for storing time statistics for completed
26 transactions;

27 receiving from said computer software system a
28 transaction log record for a unit of work;

29 hashing said first transaction log record to select
30 from said vector table an anchor to an in-flight
31 transaction cells chain corresponding to said unit of
32 work;

33 searching said in-flight transaction cells chain for
34 said unit of work;

35 responsive to finding said unit of work in said in-
36 flight transaction cells chain, capturing to said in-
37 flight transaction cell timing statistics from said
38 transaction log record;

39 responsive to not finding said unit of work in said in-
40 flight transaction cells chain, chaining a new in-

SVL920030040US1

13

S/N 10/724,327

41 flight transaction cell to said chain and capturing to
42 said new in-flight transaction cell timing statistics
43 from said transaction log record;

44 determining if said transaction log record completes a
45 transaction and, if so, updating said completed
46 transactions table with timing statistics for said
47 transaction and removing said in-flight transaction
48 cell from said in-flight transaction cells chain; and

49 determining responsive to said second tuning parameter
50 if a selected unit of work being accumulated in a
51 selected in-flight transaction cell has timed out, and
52 if so removing from said selected in-flight transaction
53 cell from said in-flight transaction cell chain and
54 selectively updating said completed transactions table
55 with timing statistics for said selected unit of work.

13. [Canceled]

SVL920030040US1

14

S/N 10/724,327